

**IN THE CLAIMS**

Claims 1-6 (Canceled)

7. (New) A magnetic recording medium made by forming at least a magnetic layer and an overcoat on a non-magnetic substrate, said overcoat having a surface on which a liquid lubricant of a perfluoropolyether structure is coated, wherein the surface of said overcoat has less than 0.8 nm average roughness Ra, said overcoat is a layer of diamond-like-carbon with less than 5 nm thickness, and said lubricant coat on said overcoat contains said perfluoropolyether structure having cyclic phosphazene at the end of said perfluoropolyether structure.

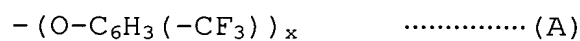
8. (New) A magnetic recording medium according to claim 7, wherein said perfluoropolyether structure contains  $-(OC_2F_4)_p-$ ,  $-(OCF_2)_q-$ , and a structure represented by:



(where  $p=5-36$ ,  $q=4-30$ ,  $x=1-5$ )

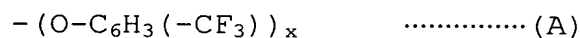
9. (New) A magnetic recording medium according to claim 7, wherein said lubricant coat contains more than 30% of a

lubricant component having a perfluoropolyether structure containing  $-(OC_2F_4)_p-$ ,  $-(OCF_2)_q-$ , and a structure represented by:



(where  $p=5-36$ ,  $q=4-30$ ,  $x=1-5$ )

10. (New) The magnetic recording medium according to claim 7, wherein a principal chain of said lubricant component has a perfluoropolyether structure containing  $-(OC_2F_4)_p-$ ,  $-(OCF_2)_q-$ , an end group of said lubricant component has a structure represented by:



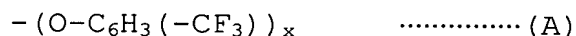
(where  $p=5-36$ ,  $q=4-30$ ,  $x=1-5$ )

and said principal chain has an average molecular weight of 1500-2500.

11. (New) A magnetic recording medium made by forming at least a magnetic layer and an overcoat on a non-magnetic substrate of a disk, said overcoat having a surface on which a liquid lubricant of a perfluoropolyether structure is coated, wherein the surface of said overcoat has less than 0.8 nm average roughness  $R_a$ , said overcoat is a layer of diamond-like-carbon with a thickness in a range of 1.5 - 4.5 nm, and

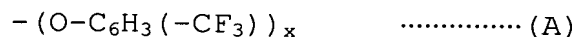
said lubricant coat on said carbon overcoat contains said perfluoropolyether structure having cyclic phosphazene at the end of said perfluoropolyether structure.

12. (New) A magnetic recording medium according to claim 11, wherein said perfluoropolyether structure contains  $-(OC_2F_4)_p-$ ,  $-(OCF_2)_q-$ , and a structure represented by:



(where  $p=5-36$ ,  $q=4-30$ ,  $x=1-5$ )

13. (New) A magnetic recording medium according to claim 11, wherein said lubricant coat contains more than 30% of a lubricant component having a perfluoropolyether structure containing  $-(OC_2F_4)_p-$ ,  $-(OCF_2)_q-$ , and a structure represented by:



(where  $p=5-36$ ,  $q=4-30$ ,  $x=1-5$ )

14. (New) The magnetic recording medium according to claim 11, wherein a principal chain of said lubricant component has a perfluoropolyether structure containing  $-(OC_2F_4)_p-$ ,  $-(OCF_2)_q-$ , an end group of said lubricant component has a structure represented by:

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$-(O-C_6H_3(-CF_3))_x$  ..... (A)

(where  $p=5-36$ ,  $q=4-30$ ,  $x=1-5$ )

and said principal chain has an average molecular weight of  
1500-2500.